
MAT History File

The MAT History File receives input from other MAT components and stores it in a special database for later retrieval. Capabilities are provided to archive, purge, and prepare reports of log file contents. This information is useful for system monitoring, diagnostics, and troubleshooting.

Each MAT component provides a method for activating the log function. For example, the Scheduler includes Log Events as a menu selection. Toggling this selection turns the log function on and off.

During initial system operation or during troubleshooting, it is advisable to activate history file logging from most or all modules. However, this causes additional system overhead and rapid growth of the log file. Therefore, during normal operation, using this facility to greatest advantage requires careful selection of which information to log by which modules.

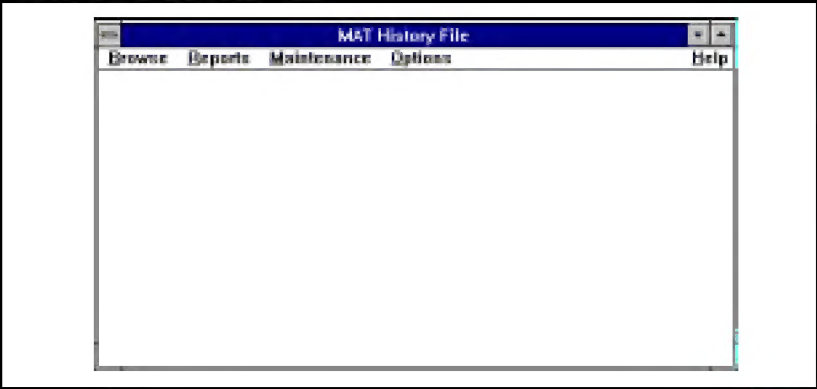
Accessing the MAT History File

To access the MAT History File, double-click on the MAT History File icon. The MAT History File window appears. The window lists the logged events of your current session only. A session begins when you initialize the MAT system.

The MAT History File window provides access to the following capabilities:

- Browse
- Reports
- Maintenance
- Options

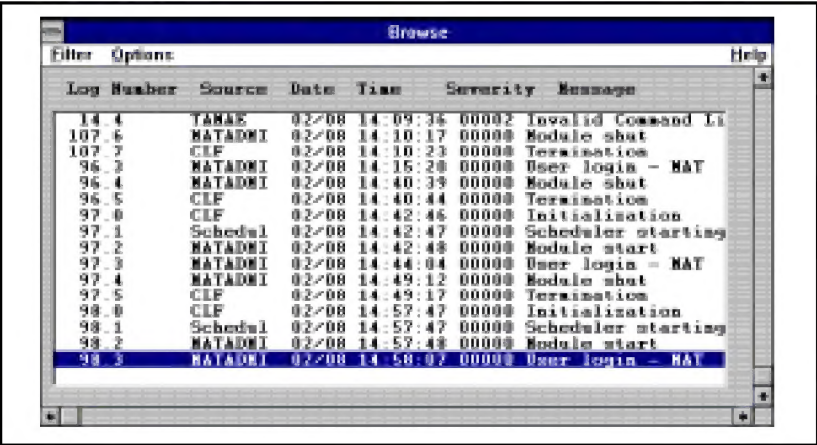
Figure 39
MAT History File window



Browse

Browse presents the entire contents of the MAT History File database, beginning when logging was initiated or after the latest file purge. To view these entries, select **Browse**—the Browse window appears.

Figure 40
Browse window



The following is a description of the fields that appear in the Browse window for a MAT History File record:

Log Number: This field contains a unique identifier. The number, up to 10 characters in length, has two parts separated by a decimal: the generation number and the sequence number. The generation number identifies a restarting of the MAT History File. The number is automatically incremented each time the MAT History File is initialized (when MAT is restarted from the Startup window). The sequence number identifies a specific entry within the current generation of the log.

A module sending a log request to the MAT History File has the option of sending a sequence number. The MAT History File uses this non-zero value. If the sequence number sent is zero, the MAT History File assigns the sequence number. The combination of the generation number and the sequence number forms a unique identifier for each log entry. The MAT History File returns the sequence number to the sending module as well as to other modules that are making log entries.

Source: This 8-character field lists the name of the module or component sending the log entry. The following is a list of available sources that register activity messages in the MAT History file.

MATAdmin	MAT Site/User Configuration
MATShell	MAT Program Group
MATDLL	Background MAT Dynamic Link Library
MATTerm	MAT Terminal Emulation
CLF	MAT History File
Schedulr	Scheduler
Queue	Queue Manager
ComSup	Communications Supervisor
ComSer	Communications Server
LICEDIT	License Editor
MATVT220	MAT VT220 Terminal Emulation
TAM	Traffic Analysis Module
TCOLLECT	Traffic Collection and Parsing
TAMAE	TAM Analytical Engine
FLEDIT	TAM Filter Editor
PROEDIT	TAM Profile Editor
DBMAINT	TAM Database Maintenance

Date: This field contains the date (in MM/DD/YY format) when the message was logged.

Time: This field contains the time (in 24-hour hh:mm:ss format) when the message was logged.

Severity: This field contains the severity of the entry being logged. It is used for diagnostic purposes.

- | | |
|---|--|
| 0 | Information |
| 1 | Warning |
| 2 | Error |
| 3 | Fatal |
| 4 | Unclassified (message itself with no severity association) |

Message: This field contains a message from the source module describing the event that was logged (e.g. user login).

The Filter menu

A *filter* provides record selection criteria that define the subset of information to be displayed or printed. These criteria include dates, times, log numbers, and source module names.

Filter files are named SELECTxx.DAT, where xx is a meaningful one- or two-character identifier. The default file names for filter files are:

- | | |
|-------------|------------------------|
| SELECTF.DAT | Browse/reports filters |
| SELECTP.DAT | Purge filters |
| SELECTB.DAT | Backup filters |

Select

Choose **Select** from the Filter menu of the Browser window to access a filter. The Filter dialog appears.

Figure 41
Filter dialog

In the Filter window, enter information in the following fields to define a filter:

Filter Description: Type in a description for this filter.

Date Filter: Enter one or more date ranges in the Date From and To fields. Use **MM/DD** format, and click on **Include** or **Exclude** to indicate whether log entries within the specified range are to be included in or excluded from the filtered output.

Time Filter: Enter one or more time ranges in the Time From and To fields. Use **hh:mm** format, and click on **Include** or **Exclude** to indicate whether log entries within the specified range are to be included in or excluded from the filtered output.

Source Filter: Enter one or more module names in the **Source** fields. These are the modules whose entries are to be included in or excluded from the filtered output.

Log Numbers Filter: Enter the MAT History File number range in the **Log Numbers From** and **To** fields. (The MAT History File assigns a number to each entry it logs.) You have the option to enter the generation and sequence numbers or the generation number alone, and click on **Include** or **Exclude** to indicate whether log entries within the specified range are to be included in or excluded from the filtered output.

Severity Filter: Enter the severity range in the **Severity From** and **To** fields, then click on **Include** or **Exclude** to indicate whether log entries within the specified range are to be included in or excluded from the filtered output.

Select **Save** from the Filter menu to save this filter. Select **Close** from the File menu to return to the Browse window. The only entries that appear are those meeting your selection criteria.

Select **Save As** from the File menu to save this filter to save to a filename other than the default.

Click on **Open** to open a filtered file other than the default.

Reset

Click on **Reset** in the Filter menu to reset filters to include all records.

Options

The following selections are available from the Options menu of the Browse window:

Status

To view last generation and sequence number in the MAT History File, click on **Status**. The generation number is the number of times the MAT system has been run since it was installed. The sequence is the number of the most recent activity in the current session logged to the MAT History file.

Info

To view the position of the current highlighted record among the total number of records stored in the MAT History File Database, click on **Info**.

Close

To close the Browse Control menu, click on **Close**.

Reports

The MAT History File window includes a Reports menu. Open this menu and select **Print Report** to print the contents of the MAT History File database. The standard Printer dialog appears, prompting for printer information.

Note: The report format is 132 characters wide. A list of appropriate fonts is offered in the printer setup dialog. If your printer does not have a suitable font, it will be unable to print correctly. If you choose the Generic printer, you must designate the 17 CPI font set up in the Windows Control Panel. From the Control Panel, select **Printers - Setup - Modify** and update the printer information. Please see the Windows User's Guide for additional information on font settings.

If you want to tailor your reports, you can use filters as you did during Browse. To access the Filters window, select **Set Filters** from the Reports menu. Refer to “The Filter menu” on page 138 for instructions on using filters.

To reset filters so that reports include all MAT History File database information, select **Reset Filters** in the Reports menu.

Maintenance

The Maintenance menu of the MAT History File window provides you with functions to purge (erase) or archive (save) the contents of its database.

Purge

To remove data from the MAT History File Database, select **Purge** from the Maintenance menu. The Filter dialog appears, prompting you to define the data you wish to purge. Refer to “The Filter menu” on page 138 for instructions on how to use filters.

After you have entered filter information and closed the Filter window, MAT warns you that filtered records will be deleted. Click on **OK** to continue. Click on **Cancel** to exit without purging the data. If you click on **OK**, MAT asks for another confirmation. Again, click on **OK** to purge the database, **Cancel** to exit the purge procedure.

Archive

To archive the records of the database, select **Archive** in the Maintenance menu.

The Filter dialog appears, prompting you to enter the filter name and the filter range. To exclude a range from being backed up, click on the **Exclude** instead of **Include**. Close the dialog. See “The Filter menu” on page 138 for more information on choosing filters.

Options

The Options menu of the MAT History File window provides the following options:

Status

To view current information on the operation of the MAT History File, select **Status**.

Monitor

To record module activity in the MAT History File, select **Monitor** from the Options menu. Notice that a check mark appears next to Monitor in the menu to show that it is active. Click on the menu selection a second time to deactivate this feature.

The MAT History File displays each entry as it arrives and is logged to disk. The Monitor process ignores any filters that may be set.

Pause

Select **Pause** to suspend the monitoring process at the last entry. Click a second time to resume monitoring.